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(54) Title: NOVEL METHODS OF IMAGING AND TREATMENT WITH TARGETED COMPOSITIONS

(57) Abstract: Novel ultrasound methods comprising administering to a patient a targeted vesicle composition which comprises vesicles comprising a lipid, protein or polymer, encapsulating a gas, in combination with a targeting ligand, and scanning the patient using ultrasound. The scanning may comprise exposing the patient to a first type of ultrasound energy and then interrogating the patient using a second type of ultrasound energy. The targeting ligand preferably targets tissus, cells or receptors, including myocardial cells, endothelial cells, epithelial cells, tumor cells and the glycoprotein GPIIbIIIa receptor. The methods may be used to detect a thrombus, enhancement of an old or echogenic thrombus low concentrations of vesicles and vesicles targeted to tissues, cells or receptors.

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A CLASS	IFICATION OF SUBJECT MATTER A61K49/00								
According to International Patent Classification (IPC) or to both national classification and IPC									
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic data base consulted during the intermetional search (name of data base and, where practical, search terms used) PAJ, WPI Data, EPO-Internal, BIOSIS, MEDLINE, CANCERLIT, EMBASE, DISSERTATION ABS CHEM ABS Data									
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT								
Category *	Citation of document, with indication, where appropriate, of the re	levent passages		Relevant to claim No.					
Х,L	WO 96 40285 A (IMARX PHARMACEUTIC; UNGER EVAN C (US); SHEN DEKANG (19 December 1996 (1996-12-19) the whole document L: Priority			1-72					
X Furth	her documents are listed in the continuation of box C.	X Patent family m	nembers are listed i	n annex.					
* Special car	tagories of cited documents:								
"A" document defining the general state of the art which is not considered to be of particular relevance the serier document but published after the international filing date the common of the specified on or after the international filing date. "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another classion or other special reason (as specified) cannot be considered novel or cannot in the document of particular relevance; the cit cannot not or other special reason (as specified) cannot be considered to involve an involve			ne application but ory underlying the aimed invention be considered to unment is taken alone aimed invention nettre stap when the						
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	8 October 2000	22/11/20		an industry					
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk	Authorized officer							
	NL - 2200 TV Hijemik Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Dullaart	., A						

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Catagory *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Y	WU YUNQIU ET AL: "Preliminary report: Binding and lysing of blood clots using MRX-408." INVESTIGATIVE RADIOLOGY, vol. 33, no. 12, December 1998 (1998-12), pages 880-885, XP000952676 ISSN: 0020-9996 abstract page 882, left-hand column figure 6 page 884, right-hand column, paragraph	1-72
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Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT Estagory Citation of document, with indication where appropriate, of the milevant passages. Relevant to claim No.					
Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.				
HAUTANEN A ET AL: "Effects of modifications of the RGD sequence and its context on recognition by the fibronectin receptor." JOURNAL OF BIOLOGICAL CHEMISTRY, JAN 25 1989, VOL. 264, NO. 3, PAGE(S) 1437-1442, XPO02150374 abstract page 1439, left-hand column, last paragraph -right-hand column, line 15 figure 5 page 1441, right-hand column, line 39 - line 56	1-72				
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-72 in part

Present claims 1-72 relate to a method using an extremely large number of possible compositions. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compositions claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the methods using a composition described in the examples, with special emphasis on examples 60-66.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

information on patent family members

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